

## **STATEMENT OF WORK**

### **1. CONTRACT TITLE:**

Tower/Chiller Water Treatment Service

### **2. BACKGROUND:**

The VA Loma Linda Healthcare System tower/chiller system requires twice monthly treatment services to prevent fouling on metal surfaces, inhibit corrosion, sanitize, clean, disinfect and control biological growths with monthly water analysis and an annual requirement for tower cleanout.

### **3. GENERAL SCOPE:**

Contractor shall provide all necessary supervision, labor, materials, equipment and tools to perform Tower/Chiller Water Treatment Service at the VA Loma Linda Healthcare System located at 11201 Benton Street Loma Linda, CA 92357. Treatment service is to be conducted twice monthly with annual cooling tower cleanout to minimize the likelihood of growth of Legionella Bacteria Disease. Water samples to be delivered to a Certified Legionella Testing Lab for Analysis.

### **4. SPECIFICATIONS OF COOLING TOWERS:**

2 each BAC-3728C-2/0 each - 1456 tons each

### **5. SPECIFIC REQUIREMENTS:**

- Contractor to provide complete tower/chiller water treatment to prevent fouling on metal services, inhibit corrosion, sanitize, clean, disinfect and control biological growths.
- Contractor shall provide all necessary supervision, personal protective equipment, labor, materials, equipment, and tools to perform the service.
- Vendor shall check chemical levels and fill as needed, and inspect on a regular basis to insure the integrity of the system.
- Vendor must be able to respond within 2 hours of emergency call.
- Chemicals other than chemicals in the day tanks located in tower yard, shall not be stored on site.
- Service visit shall be conducted twice monthly and include the following:
  - a) Conduct water analysis on the cooling towers
  - b) Inspect cooling towers for biological growth, foam, sludge, and proper system operation
  - c) Control equipment is to be checked for calibration and proper operation, probes cleaned and adjustments made as test results dictate
  - d) Inspect blow down solenoid valve
  - e) Inspect and repair chemical pumps, injection points and check valves on all treated equipment.
  - f) Ensure water flow is sufficient through all lines

- g) Maintain polyethylene tubing, valves and chemical pumps, provide loaner equipment in the event equipment malfunction until onsite units are repaired or replaced
  - h) Furnish and apply all products to retard scale and corrosion in condensing water circuits
  - i) Furnish and apply biocides for the prevention of biological fouling in the circulating water systems
  - j) Check chemical storage tanks and fill as necessary
  - k) Ensure cycles of concentration are adjusted to minimize water that is discharged to the drain.
  - l) Visually inspect operation of equipment and make note of any conditions that interfere with proper equipment operations and report to facility management personnel
  - m) Furnish all test regents, test equipment, and log sheets necessary to properly maintain the treatment program
  - n) Supply copies of computerized reports listing findings and recommendations to the Facility manager and or Boiler Plant Supervisor.
- Monthly, the service visit shall include:
    - a) Water analysis on closed water circuits.
    - b) Furnish and apply all products to retard scale and corrosion in closed loop water circuits.
    - c) Inspect pot feeders for proper operation.
    - d) Visually inspect operation of equipment and keep the treatment area neat, clean and orderly.
  - Annually, the following service shall include:
    - a) Present yearly review of the treatment program, topics to include recommendations, effectiveness of existing program, results of equipment inspections and future consideration.
    - b) Perform annual cooling tower cleanout to maintain tower fill, tower nozzles, and distribution decks from scale and debris accumulation.
    - c) Flush sumps and basins to remove debris and Deliver Water Samples to a Certified Legionella Testing Lab for Analysis and report findings to VA Loma Linda, Facility Management Service
  - Scope of work shall follow the provided policies and guidelines:

VHA Directive 1061 – Prevention of Healthcare-Associated Legionella disease and scald injury  
From Potable Water Distribution Systems

[http://www.va.gov/vhapublications/ViewPublication.asp?pub\\_ID=3033](http://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=3033)

OSHA Technical Manual (OTM) Section III: Chapter 7

[https://www.osha.gov/dts/osta/otm/otm\\_iii/otm\\_iii\\_7.html](https://www.osha.gov/dts/osta/otm/otm_iii/otm_iii_7.html)

ASHRAE Guideline 12-2000, Standard Minimizing the Risk of *Legionellosis* Associated with Building Water Systems for *Legionella* (reference CDC website)  
<http://www.cdc.gov/legionella/about/prevention.html>

In accordance with VHA Directive 1061, the laboratory processing the water samples for *Legionella* must be certified by the Centers for Disease Control and Prevention (CDC) Environmental *Legionella* Isolation Techniques Evaluation (ELITE) program as proficient at performing the culture of *Legionella* species from environmental samples.

**6. TRAVEL:**

All travel shall be the responsibility of the Contractor

**7. SMOKING POLICY:**

Smoking is not permitted within or around the VA, except in designated areas.

**8. SAFETY AND FIRE PREVENTION:**

In the performance of this contract, the Contractor shall take such safety precautions as necessary to protect the lives and health of the occupants of the building. Fire and safety deficiencies, which exist and are part of the responsibility of the Contractor, shall be immediately corrected. If the Contractor fails or refuses to correct deficiencies promptly, the COR may issue an order stopping all, or any part of the work. The Contractor shall in effect during the performance period of the contract. The Contractor personnel shall follow applicable facility policies concerning fire/disaster programs.

**9. VA POLICY:**

Possession of weapons is prohibited. Enclosed containers, including tool kits, are subject to search. Violations of VA regulations may result in citations answerable in the United States (Federal) District Court.

**10. CHANGES:**

The contractor is advised that only the Contracting Officer, acting within the scope of the contract has the authority to make changes which may affect the contract terms and conditions, quality, quantity, place, and/or delivery. It is highly encouraged and advised that the contractor contract the Contracting Officer for approval in the event there are changes prior to proceeding. No other individual has the authority to make binding changes and/or commitments.

In the event that the contractor commits to such changes at the direction of any other person than the Contracting Officer, the changes shall be considered to have been made without proper authority and no adjustment shall be made in contract price to cover any increase in costs incurred as a result thereof.

## **11. HOURS OF WORK AND SCHEDULING:**

Performance of work shall be performed as specified herein Monday through Friday, with the exceptions of National Holidays between the hours of 8:30AM – 4:30PM.

Contractor is not required to provide any service(s) on nationally recognized U.S. Government holidays, nor shall the contractor be paid for these holidays.

If a holiday falls on a Sunday, the following Monday will be observed as the National Holiday. When a holiday falls on a Saturday, the preceding Friday is observed as a National Holiday by U.S. Government agencies. Also included would be any day specifically declared by the President of the United States.

## **12. OVERTIME AND HOLIDAYS:**

Any overtime and/or holiday pay that may be entitled to the Contractor's employee(s) shall be the sole responsibility of the Contractor and shall not be billed to nor reimbursed by the Government.

## **13. NATIONAL HOLIDAYS**

Listed below are the ten (10) national holidays.

New Year's Day	January 1st
Martin Luther King's Birthday	Third Monday in January
President's Day	Third Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	First Monday in September
Columbus Day	Second Monday in October
Veterans Day	November 11th
Thanksgiving Day	Fourth Thursday in November
Christmas Day	December 25th